

**KEERTHIRAM MURUGESAN**

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## **TECHNICAL SKILLS**

- Extensive experience with C, C++, Java, Objective-C, HTML, XML, JavaScript.
- Experience with Spring, Struts, Hibernate, Acegi frameworks, EJB, AspectJ, JSTL, JSF, AJAX, Rome, Axis, Quartz, JASIG-CAS, OpenJMS, ActiveMQ, Servlets, JSP, iPhone SDK, Cocoa Touch.
- Experience with Project management tools like Maven 2, IBM Rational Suite and web template engines like Velocity, Tiles, FreeMarker, and SiteMesh.
- Worked with application servers like Apache Tomcat, GlassFish and IBM Websphere Application Servers.
- IBM Certified Database Associate (DB2 Universal Database V8.1 Family). Developed applications with backend data stores like MySQL, HSQLDB, and Oracle 9i.
- Research interests include Information retrieval, Information management, Natural Language Processing, Page ranking algorithms, Web mining and clustering.

## **PROFESSIONAL EXPERIENCE**

CEPIS RESEARCH CENTER – Information System Specialist

**AUG 2008 – Present**

College of Education, University of Kentucky

- Extracting unstructured student information from several sources.
- Developed Java, Spring & Struts frameworks, JSF based 'Information System' to efficiently use the structured data.
- Integrated SSO authentication to the existing system using JASIG-CAS, ActiveMQ and Acegi Security.
- Achieved optimal performance of the system using Hibernate framework, OpenJMS, CEPIS\_FS, Ehcache and OSCache.

ACRC Research Center – Software Intern

**JAN 2008 – JUL 2008**

Tamil Nadu Agricultural University

- Developed RFID based student information management system to track student's career goal, certification details, library account information and other personal data.

SYSCARE INFOTECH – Web Programmer & Application Developer

**MAR 2006 – JAN 2008**

Coimbatore, India

- Developed web projects for using Java Swing, Visual Basic, Visual C#, Visual C++.

## **RELEVANT PROJECT EXPERIENCE**

- **Masters Thesis – Using query generation methods for document clustering**  
HiPSCCS Research Lab, University of Kentucky  
Unsupervised Clustering of 23,000 News articles (Corpus) using query generation methods.
- **Gircle HTTP Server** 2009  
Developed a HTTP server using C++ and [protobuf](#). This server reduced the DNS latency of a web document by caching DNS A record or the whole document in the local server.
- **CEPIS\_FS** 2009  
Developed a C package to efficiently maintain the information / files in remote server using RPC procedures. A Java version of this package (CEPIS\_FS) was created using Spring framework, Apache Axis and HSQLDB (Indexer).
- **Undergraduate project - DailyFEED** 2008  
Developed a RSS/ATOM based web application using Apache Rome to create, edit, delete and subscribe to online feeds. It uses XMPP protocol with XEP-0060 extension.

## **VOLUNTEER EXPERIENCE**

- CSURS Research Lab, University of Kentucky  
Developed a parser component using Java Regex for the ongoing research project.
- Developing text editor App for iPhone using iPhone SDK, Objective-C and Cocoa Touch.

## **EDUCATION**

### **University of Kentucky**

Masters of Computer Science

Focused studies in Information retrieval, Web clustering, Distributed System, Networking.

**GPA: 3.9 on a scale of 0-4**

**Lexington, KY**

**AUG 2008 – Present**

### **Anna University**

Bachelor of Computer Science & Engineering

Focused studies in Distributed System, Networking.

**PERCENTAGE: 82**

**Coimbatore, India**

**AUG 2004 – APR 2008**

## **AWARDS & HONORS**

- Received Graduate Research Assistantship in College of Education, University of Kentucky. AUG 2008 – DEC 2009
- Received Kentucky Graduate Scholarship, University of Kentucky. AUG 2008 – DEC 2009
- Received Dr.Kanakaraj Memorial Award from Association of Intellectual Mission for an intellectual competition at Kumaraguru College of Technology. JUN 2007 – MAY 2008
- Received Dr.A.P.J.Abdul Kalam Merit Scholarship instituted by Ramanandha Adigalar Foundation, Coimbatore, India. AUG 2008 – APR 2009